



BUILDING CODE COMPLIANCE OFFICE (BCCO)
PRODUCT CONTROL DIVISION

MIAMI-DADE COUNTY, FLORIDA
METRO-DADE FLAGLER BUILDING
140 WEST FLAGLER STREET, SUITE 1603
MIAMI, FLORIDA 33130-1563
(305) 375-2901 FAX (305) 375-2908

NOTICE OF ACCEPTANCE (NOA)

www.buldingcodeonline.com

PGT Industries
1070 Technology Drive
Nokomis, FL 34275

SCOPE:

This NOA is being issued under the applicable rules and regulations governing the use of construction materials. The documentation submitted has been reviewed by Miami-Dade County Product Control Division and accepted by the Board of Rules and Appeals (BORA) to be used in Miami Dade County and other areas where allowed by the Authority Having Jurisdiction (AHJ).

This NOA shall not be valid after the expiration date stated below. The Miami-Dade County Product Control Division (In Miami Dade County) and/or the AHJ (in areas other than Miami Dade County) reserve the right to have this product or material tested for quality assurance purposes. If this product or material fails to perform in the accepted manner, the manufacturer will incur the expense of such testing and the AHJ may immediately revoke, modify, or suspend the use of such product or material within their jurisdiction. BORA reserves the right to revoke this acceptance, if it is determined by Miami-Dade County Product Control Division that this product or material fails to meet the requirements of the applicable building code.

This product is approved as described herein, and has been designed to comply with the Florida Building Code, including the High Velocity Hurricane Zone.

DESCRIPTION: Series SH-700 Aluminum Single Hung Window - L.M.I.

APPROVAL DOCUMENT: Drawing No. **4040-20**, titled "Alum. Single Hung Window, Impact", sheets 1 through 11 of 11, dated 9/1/05, with revision B dated 11/13/06, prepared by manufacturer, signed and sealed by Robert L. Clark, P.E., bearing the Miami-Dade County Product Control Approval stamp with the Notice of Acceptance number and approval date by the Miami-Dade County Product Control Division.

MISSILE IMPACT RATING: Large and Small Missile Impact Resistant

LABELING: Each unit shall bear a permanent label with the manufacturer's name or logo, city, state and following statement: "Miami-Dade County Product Control Approved", unless otherwise noted herein.

RENEWAL of this NOA shall be considered after a renewal application has been filed and there has been no change in the applicable building code negatively affecting the performance of this product.

TERMINATION of this NOA will occur after the expiration date or if there has been a revision or change in the materials, use, and/or manufacture of the product or process. Misuse of this NOA as an endorsement of any product, for sales, advertising or any other purposes shall automatically terminate this NOA. Failure to comply with any section of this NOA shall be cause for termination and removal of NOA.

ADVERTISEMENT: The NOA number preceded by the words Miami-Dade County, Florida, and followed by the expiration date may be displayed in advertising literature. If any portion of the NOA is displayed, then it shall be done in its entirety.

INSPECTION: A copy of this entire NOA shall be provided to the user by the manufacturer or its distributors and shall be available for inspection at the job site at the request of the Building Official.

This NOA **revises NOA # 05-1018.01** and consists of this page 1 and evidence pages E-1, E-2 and E-3, as well as approval document mentioned above.

The submitted documentation was reviewed by **Manuel Perez, P.E.**



NOA No. 07-0322.06
Expiration Date: March 23, 2011
Approval Date: June 07, 2007
Page 1

NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED

A. DRAWINGS

1. Manufacturer's die drawings and sections.
2. Drawing No **4040-20**, Sheets 1 through 11 of 11, titled "Alum. Single Hung Window, Impact", dated 9/1/05, with revision B dated 11/13/06, prepared by manufacturer, signed and sealed by Robert L. Clark, P.E.

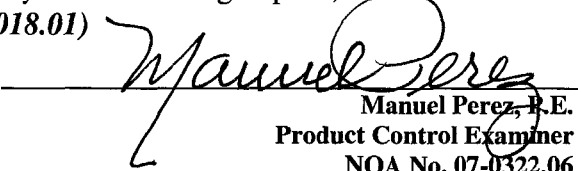
B. TESTS

1. Test reports on 1) Air Infiltration Test, per FBC, TAS 202-94
2) Uniform Static Air Pressure Test, Loading per FBC TAS 202-94
3) Water Resistance Test, per FBC, TAS 202-94
4) Large Missile Impact Test per FBC, TAS 201-94
5) Cyclic Wind Pressure Loading per FBC, TAS 203-94
6) Forced Entry Test, per FBC 3603.2 (b) and TAS 202-94
along with marked-up drawings and installation diagram of an Aluminum Single Hung Window, with fin frame, prepared by Fenestration Testing Laboratory, Inc., Test Report No. **FTL-4957**, dated 10/03/06, signed and sealed by Edmundo Largaespada, P.E.
2. Test reports on 1) Uniform Static Air Pressure Test, Loading per FBC, TAS 202-94
2) Large Missile Impact Test per FBC, TAS 201-94
3) Cyclic Wind Pressure Loading per FBC, TAS 203-94
along with marked-up drawings and installation diagram of an Aluminum Single Hung Window, with fin frame, prepared by Fenestration Testing Laboratory, Inc., Test Report No. **FTL-4958**, dated 10/03/06, signed and sealed by Edmundo Largaespada, P.E.
3. Test reports on 1) Uniform Static Air Pressure Test, Loading per FBC, TAS 202-94
2) Large Missile Impact Test per FBC, TAS 201-94
3) Cyclic Wind Pressure Loading per FBC, TAS 203-94
along with marked-up drawings and installation diagram of an Aluminum Single Hung Window, Impact, prepared by Fenestration Testing Laboratory, Inc., Test Report No. **FTL-5063**, dated 11/21/06, signed and sealed by Edmundo Largaespada, P.E.
4. Test reports on 1) Large Missile Impact Test per FBC, TAS 201-94
2) Cyclic Wind Pressure Loading per FBC, TAS 203-94
along with marked-up drawings and installation diagram of Aluminum Single Hung Window, Impact, prepared by Fenestration Testing Laboratory, Test Report No. **FTL-4645**, dated 08/11/05, signed and sealed by Edmundo Largaespada, P.E.
(Submitted under previous NOA #05-1018.01)


Manuel Perez, P.E.
Product Control Examiner
NOA No. 07-0322.06
Expiration Date: March 23, 2011
Approval Date: June 07, 2007

NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED

5. Test reports on 1) Air Infiltration Test, per FBC, TAS 202-94
2) Uniform Static Air Pressure Test, Loading per FBC TAS 202-94
3) Water Resistance Test, per FBC, TAS 202-94
4) Small Missile Impact Test per FBC, TAS 201-94
5) Cyclic Wind Pressure Loading per FBC, TAS 203-94
6) Forced Entry Test, per FBC 3603.2 (b) and TAS 202-94
along with marked-up drawings and installation diagram of an Aluminum Single Hung Window, Impact, prepared by Fenestration Testing Laboratory, Inc., Test Report No. **FTL-4647**, dated 08/11/05, signed and sealed by Edmundo Largaespada, P.E.
(Submitted under previous NOA #05-1018.01)
6. Test reports on 1) Uniform Static Air Pressure Test, Loading per FBC, TAS 202-94
2) Large Missile Impact Test per FBC, TAS 201-94
3) Cyclic Wind Pressure Loading per FBC, TAS 203-94
along with marked-up drawings and installation diagram of an Aluminum Single Hung Window, Impact, prepared by Fenestration Testing Laboratory, Inc., Test Report No. **FTL-4648**, dated 08/10/05, signed and sealed by Edmundo Largaespada, P.E.
(Submitted under previous NOA #05-1018.01)
7. Test reports on 1) Large Missile Impact Test per FBC, TAS 201-94
2) Cyclic Wind Pressure Loading per FBC, TAS 203-94
along with marked-up drawings and installation diagram of Aluminum Single Hung Window, Impact, prepared by Fenestration Testing Laboratory, Test Report No. **FTL-4649**, dated 08/11/05, signed and sealed by Edmundo Largaespada, P.E.
(Submitted under previous NOA #05-1018.01)
8. Test reports on 1) Air Infiltration Test, per FBC, TAS 202-94
2) Uniform Static Air Pressure Test, Loading per FBC TAS 202-94
3) Water Resistance Test, per FBC, TAS 202-94
4) Small Missile Impact Test per FBC, TAS 201-94
5) Cyclic Wind Pressure Loading per FBC, TAS 203-94
6) Forced Entry Test, per FBC 3603.2 (b) and TAS 202-94
along with marked-up drawings and installation diagram of an Aluminum Single Hung Window, Impact, prepared by Fenestration Testing Laboratory, Inc., Test Report No. **FTL-4650**, dated 08/11/05, signed and sealed by Edmundo Largaespada, P.E.
(Submitted under previous NOA #05-1018.01)
9. Test reports on 1) Large Missile Impact Test per FBC, TAS 201-94
2) Cyclic Wind Pressure Loading per FBC, TAS 203-94
along with marked-up drawings and installation diagram of Aluminum Single Hung Window, Impact, prepared by Fenestration Testing Laboratory, Test Report No. **FTL-4649**, dated 08/11/05, signed and sealed by Edmundo Largaespada, P.E.
(Submitted under previous NOA #05-1018.01)


Manuel Perez, P.E.
Product Control Examiner
NOA No. 07-0322.06
Expiration Date: March 23, 2011
Approval Date: June 07, 2007

NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED

10. Test reports on 1) Uniform Static Air Pressure Test, Loading per FBC, TAS 202-94
2) Large Missile Impact Test per FBC, TAS 201-94
3) Cyclic Wind Pressure Loading per FBC, TAS 203-94
along with marked-up drawings and installation diagram of an Aluminum Single Hung Window, Impact, prepared by Fenestration Testing Laboratory, Inc., Test Report No. **FTL-4646**, dated 08/11/05, signed and sealed by Edmundo Largaespada, P.E.
(Submitted under previous NOA #05-1018.01)
11. Test reports on 1) Large Missile Impact Test per FBC, TAS 201-94
2) Cyclic Wind Pressure Loading per FBC, TAS 203-94
along with marked-up drawings and installation diagram of Aluminum Single Hung Window, Impact, prepared by Fenestration Testing Laboratory, Test Report No. **FTL-4723**, dated 10/05/05, signed and sealed by Edmundo Largaespada, P.E.
(Submitted under previous NOA #05-1018.01)

C. CALCULATIONS

1. Anchor Calculations and structural analysis, complying with FBC-2004, dated 12/18/06, prepared, signed and sealed by Robert L. Clark, P.E.
Complies with ASTM E1300-02

D. QUALITY ASSURANCE

1. Miami Dade Building Code Compliance Office (BCCO).

E. MATERIAL CERTIFICATIONS

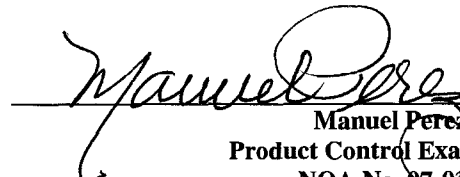
1. Notice of Acceptance No. **05-1208.02** issued to E.I. DuPont DeNemours for "**DuPont Butacite® PVB**" dated 01/05/06, expiring on 12/11/10.
2. Notice of Acceptance No. **03-0827.08** issued to Solutia Inc. for their "**Solutia Interlayer**" dated 03/04/04, expiring on 03/04/09.

F. STATEMENTS

1. Statement letter of conformance and no financial interest, dated 03/16/07, signed and sealed by Robert L. Clark, P.E.
2. Statement letter of code compliance, dated 10/12/05, signed and sealed by Robert L. Clark, P.E.

G. OTHER

1. Notice of Acceptance No. **05-1018.01**, issued to PGT Industries for their Series SH-700 Aluminum Single Hung Window – L.M.I., approved on 03/23/06 and expiring on 03/23/11.


Manuel Perez, P.E.
Product Control Examiner
NOA No. 07-0322.06
Expiration Date: March 23, 2011
Approval Date: June 07, 2007

GENERAL NOTES: IMPACT SINGLE HUNG FLANGED AND INTEGRAL FIN WINDOWS

1. GLAZING OPTIONS: (SEE DETAILS ON SHEET 2)

- A. 5/16" LAMI CONSISTING OF (2) LITES OF 1/8" ANNEALED GLASS WITH AN .090 DUPONT BUTACITE OR SAFLEX/KEEPSAFE MAXIMUM PVB INTERLAYER.
B. 5/16" LAMI CONSISTING OF (1) LITE OF 1/8" ANNEALED GLASS AND (1) LITE OF 1/8" HEAT STRENGTHENED GLASS WITH A .090 DUPONT BUTACITE OR SAFLEX/KEEPSAFE MAXIMUM PVB INTERLAYER.
C. 5/16" LAMI CONSISTING OF (2) LITES OF 1/8" HEAT STRENGTHENED GLASS WITH AN .090 DUPONT BUTACITE OR SAFLEX/KEEPSAFE MAXIMUM PVB INTERLAYER.
D. 7/16" LAMI CONSISTING OF (2) LITES OF 3/16" ANNEALED GLASS WITH AN .090 DUPONT BUTACITE OR SAFLEX/KEEPSAFE MAXIMUM PVB INTERLAYER.
E. 7/16" LAMI CONSISTING OF (1) LITE OF 3/16" ANNEALED GLASS AND (1) LITE OF 3/16" HEAT STRENGTHENED GLASS WITH AN .090 DUPONT BUTACITE OR SAFLEX/KEEPSAFE MAXIMUM PVB.
F. 7/16" LAMI CONSISTING OF (2) LITES OF 3/16" HEAT STRENGTHENED GLASS WITH AN .090 DUPONT BUTACITE OR SAFLEX/KEEPSAFE MAXIMUM PVB INTERLAYER.
G. 7/16" LAMI IG: (1) LITE OF 1/8" HEAT STRENGTHENED GLASS, AN AIR SPACE AND 5/16" LAMI CONSISTING OF (2) LITES OF 1/8" ANNEALED GLASS WITH A .090 DUPONT BUTACITE OR SAFLEX/KEEPSAFE MAXIMUM PVB INTERLAYER.
H. 13/16" LAMI IG: (1) LITE OF 1/8" HEAT STRENGTHENED GLASS, AN AIR SPACE AND 5/16" LAMI CONSISTING OF (1) LITE OF 1/8" ANNEALED GLASS AND (1) LITE OF 1/8" HEAT STRENGTHENED GLASS WITH A .090 DUPONT BUTACITE OR SAFLEX/KEEPSAFE MAXIMUM PVB INTERLAYER.
I. 13/16" LAMI IG: (1) LITE OF 1/8" HEAT STRENGTHENED GLASS, AN AIR SPACE AND 5/16" LAMI CONSISTING OF (2) LITES OF 1/8" HEAT STRENGTHENED GLASS WITH AN .090 DUPONT BUTACITE OR SAFLEX/KEEPSAFE MAXIMUM PVB INTERLAYER.
J. 13/16" LAMI IG: (1) LITE OF 1/8" HEAT STRENGTHENED GLASS, AN AIR SPACE AND 7/16" LAMI CONSISTING OF (2) LITES OF 3/16" ANNEALED GLASS WITH A .090 DUPONT BUTACITE OR SAFLEX/KEEPSAFE MAXIMUM PVB INTERLAYER.
K. 13/16" LAMI IG: (1) LITE OF 1/8" HEAT STRENGTHENED GLASS, AN AIR SPACE AND 7/16" LAMI CONSISTING OF (1) LITE OF 3/16" ANNEALED GLASS AND (1) LITE OF 3/16" HEAT STRENGTHENED GLASS WITH AN .090 DUPONT BUTACITE OR SAFLEX/KEEPSAFE MAXIMUM PVB.
L. 13/16" LAMI IG: (1) LITE OF 1/8" HEAT STRENGTHENED GLASS, AN AIR SPACE AND 7/16" LAMI CONSISTING OF (2) LITES OF 3/16" HEAT STRENGTHENED GLASS WITH AN .090 DUPONT BUTACITE OR SAFLEX/KEEPSAFE MAXIMUM PVB INTERLAYER.
M. 13/16" LAMI IG: (1) LITE OF 1/8" ANNEALED GLASS, AN AIR SPACE AND 5/16" LAMI CONSISTING OF (2) LITES OF 1/8" ANNEALED GLASS WITH AN .090 DUPONT BUTACITE OR SAFLEX/KEEPSAFE MAXIMUM PVB INTERLAYER.

2. CONFIGURATIONS: "OX": (1/1, VIEW AND RADIUS TOP, ALL W/ LOW OR HIGH SILL OPTION)

3. DESIGN PRESSURES: (SEE TABLES, SHEETS 3)

A. NEGATIVE DESIGN LOADS BASED ON TESTED PRESSURE AND GLASS TABLES ASTM E 1300-02.

B. POSITIVE DESIGN LOADS BASED ON WATER TEST PRESSURE AND GLASS TABLES ASTM E 1300-02.

4. ANCHORAGE: THE 33 1/3% STRESS INCREASE HAS NOT BEEN USED IN THE DESIGN OF THIS PRODUCT. SEE SHEETS 8 THROUGH 11 FOR ANCHORAGE DETAILS.

5. SHUTTERS ARE NOT REQUIRED.

6. FRAME AND PANEL CORNERS SEALED WITH NARROW JOINT SEALANT OR GASKET.

7. REFERENCES: TEST REPORTS FTL-4645, FTL-4646, FTL-4647, FTL-4648, FTL-4649, FTL-4650, FTL-4651, FTL-4723, FTL-4957, FTL-4958 AND FTL-5063.

ANSI/AF&PA NDS-2001 FOR WOOD CONSTRUCTION
ADM-2000 ALUMINUM DESIGN MANUAL

8. SERIES/MODEL DESIGNATION SH700, ALSO REFERRED TO AS SH701.

9. THIS PRODUCT HAS BEEN DESIGNED & TESTED TO COMPLY WITH THE REQUIREMENTS OF THE FLORIDA BUILDING CODE, CURRENT EDITION INCLUDING THE HIGH VELOCITY HURRICANE ZONE (HVHZ).

NOA DRAWING MAP

GENERAL NOTES.....	SHEET
GLAZING DETAILS.....	1
DESIGN PRESSURES.....	2
ELEVATIONS.....	3
VERT. SECTIONS.....	4
HORIZ. SECTIONS.....	5
PARTS LIST.....	6
EXTRUSIONS.....	7
CORNER DETAIL.....	7
ANCHORAGE.....	8-11

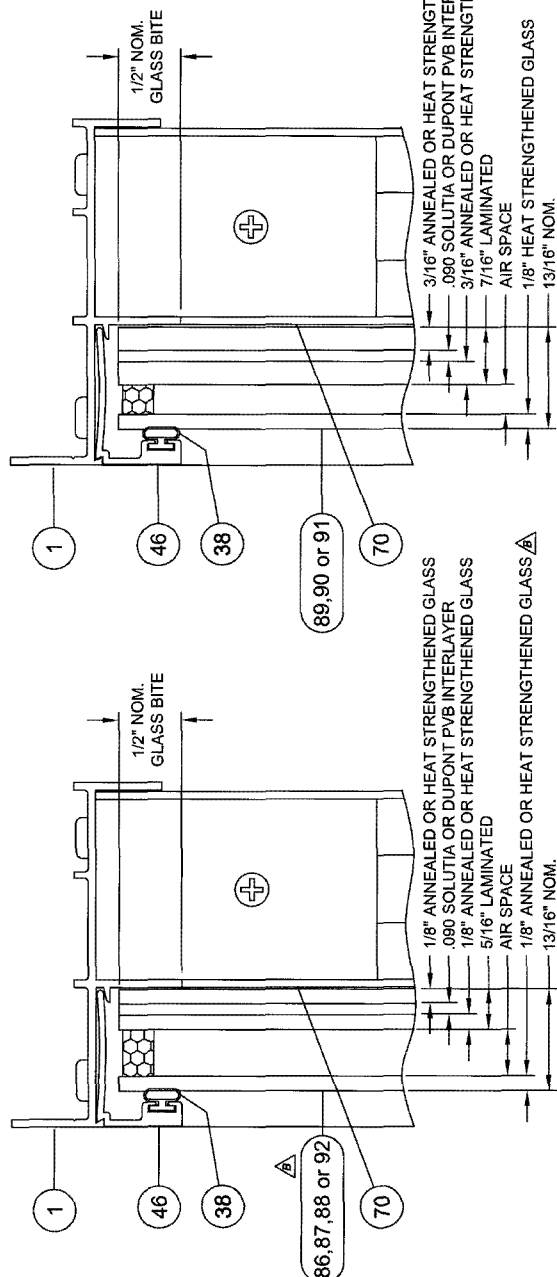
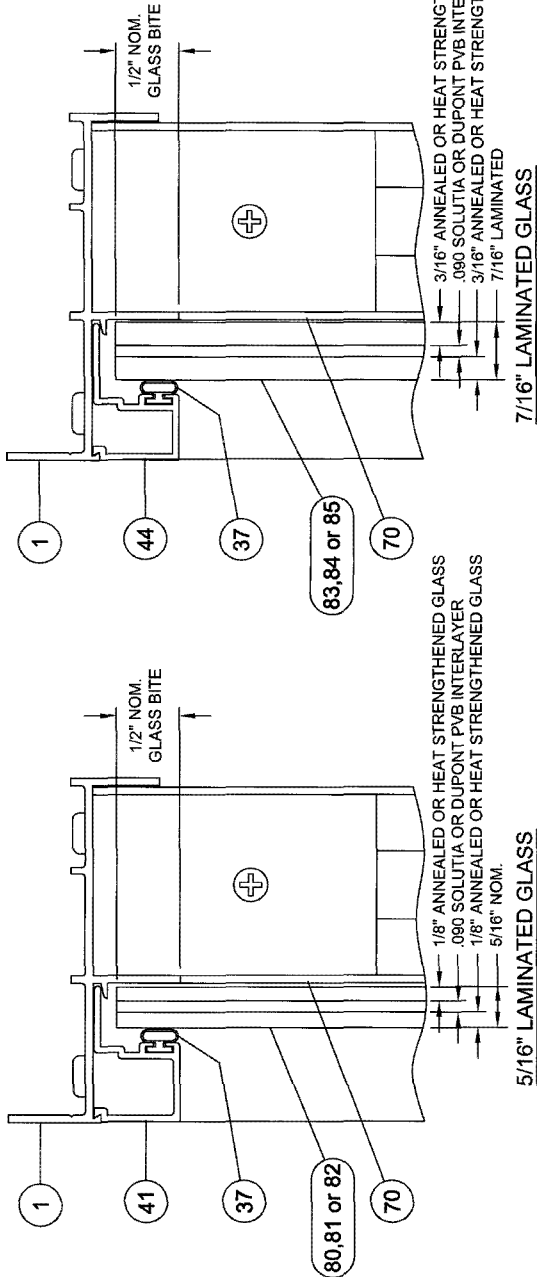
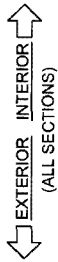
PRODUCT REVISED
as complying with the Florida
Building Code
Acceptance No. 07-0372-06
Expiration Date 12/31/2011
By: Michael J. Piro
Miami/Dade Product Controls
Division

Robert L. Clark, P.E.
PE #38712
Structural

Revised By:	Date:	Revised By:	Date:	Revised By:	Date:	Revised By:	Date:
F.K.	1/1/2008	B	1/1/2008	A	1/24/08	J.J.	9/1/05
F.K.	1/24/08	A	ADD FTL-4723 TO NOTE 7.				
Drawn By:	Date:	Checked By:	Date:				
F.K.	9/1/05	J.J.	2/23/07				
CHANGE NOTES 3 & 7. ADD NOTE 9. ADD GLASS TYPE M TO NOTE 1. GLAZING OPTIONS				1070 TECHNOLOGY DRIVE NOKOMIS, FL 34275 P.O. BOX 1529 NOKOMIS, FL 34274			
GENERAL NOTES				PGI Visibly Better			
ALUM. SINGLE HUNG WINDOW, IMPACT				SH700			
Scale: NTS				Sheet: 1 of 11			
Drawing No. 4040-20				Rev: B			

NOTE:

LAMI IG OUTBOARD LITES MAY BE
UPGRADED TO 3/16" WITH NO CHANGE
IN DESIGN PRESSURE.



5/16" LAMI IG GLASS W/ 5/16" LAMI

13/16" LAMI IG GLASS W/ 7/16" LAMI

PRODUCT REVISED
as complying with the Florida
Building Code
Acceptance No. 07-0327.D.6
Expiration Date 10/25/2011
By: *Michael D. [Signature]*
Division

[Signature]
3/16/17
Robert L. Clark, P.E.
PE #38712
Structural

Revised By:	Date:	Revisions:	Revised By:	Date:	Revisions:	Revised By:	Date:	Revisions:	Revised By:	Date:	Revisions:
F.K.	11/13/06	B	F.K.	1/24/06	A	F.K.	2/23/07	J.J.	F.K.	9/1/05	
ADD ITEM 82 TO 5/16 LAMI IG GLASS (A.A.A.) & LAMI IG NOTE											
NO CHANGE THIS SHEET											
1070 TECHNOLOGY DRIVE NOKOMIS, FL 34275 P.O. BOX 1929 NOKOMIS, FL 34274											
PGI Visibly Better											
Description: GLAZING DETAILS The: ALUM. SINGLE HUNG WINDOW, IMPACT											
Sheet:	Full	2	of	11	Drawing No.	4040-20	Rev.	B			

TABLE 1.
1/1 FLANGE OR INTEGRAL FIN WINDOWS W/ HIGH SILL OPTION Δ
BASED ON FLANGED WINDOW TIP-TO-TIP FRAME DIMENSIONS

WIDTH	GLASS TYPE	WINDOW HEIGHT						
		63"	66"	68"	70"	72"	74"	76"
48"	A.B.M. Δ	+80.0 -80.0	+80.0 -80.0	+80.0 -80.0	+80.0 -80.0	+80.0 -80.0	+80.0 -80.0	+80.0 -80.0
50"	A.B.M. Δ	+80.0 -80.0	+80.0 -80.0	+80.0 -80.0	+80.0 -80.0	+80.0 -80.0	+80.0 -80.0	+80.0 -80.0
52"	A.B.M. Δ	+80.0 -80.0	+80.0 -80.0	+80.0 -80.0	+80.0 -80.0	+80.0 -80.0	+80.0 -80.0	+80.0 -80.0
53 1/8"	A.B.M. Δ	+80.0 -80.0	+80.0 -80.0	+80.0 -80.0	+80.0 -80.0	+80.0 -80.0	+80.0 -80.0	+80.0 -80.0
UP TO 53 1/8"	C.D.E.F.G.H.I.J.K.L	+80.0 -80.0	+80.0 -80.0	+80.0 -80.0	+80.0 -80.0	+80.0 -80.0	+80.0 -80.0	+80.0 -80.0

TABLE 2.
STANDARD VIEW & RADIUS TOP FLANGE OR INTEGRAL FIN WINDOWS W/ HIGH SILL OPTION Δ
BASED ON FLANGED WINDOW TIP-TO-TIP FRAME DIMENSIONS

WIDTH	GLASS TYPE	WINDOW HEIGHT						
		38 3/8"	44"	50 5/8"	63"	72"	74"	76"
48"	A.B.M. Δ	+80.0 -80.0	+80.0 -80.0	+80.0 -80.0	+80.0 -80.0	+80.0 -80.0	+80.0 -80.0	+80.0 -80.0
50"	A.B.M. Δ	+80.0 -80.0	+80.0 -80.0	+80.0 -80.0	+80.0 -80.0	+80.0 -80.0	+80.0 -80.0	+80.0 -80.0
52"	A.B.M. Δ	+80.0 -80.0	+80.0 -80.0	+80.0 -80.0	+80.0 -80.0	+80.0 -80.0	+80.0 -80.0	+80.0 -80.0
53 1/8"	A.B.M. Δ	+80.0 -80.0	+80.0 -80.0	+80.0 -80.0	+80.0 -80.0	+80.0 -80.0	+80.0 -80.0	+80.0 -80.0
UP TO 53 1/8"	C.D.E.F.G.H.I.J.K.L	+80.0 -80.0	+80.0 -80.0	+80.0 -80.0	+80.0 -80.0	+80.0 -80.0	+80.0 -80.0	+80.0 -80.0

TABLE 3.
CUSTOM VIEW & RADIUS TOP FLANGE OR INTEGRAL FIN WINDOWS W/ HIGH SILL OPTION Δ
BASED ON FLANGED WINDOW TIP-TO-TIP FRAME DIMENSIONS

WIDTH	GLASS TYPE	WINDOW HEIGHT MINUS SASH HEIGHT (MAX. WINDOW HT. W/ SASH = 76" FLANGED AND 75" INTEGRAL FIN)							
		17 1/8"	22 11/16"	28 3/16"	33 3/4"	39 5/16"	44 13/16"	50 3/8"	55 15/16"
53 1/8"	D.E.F.G.H.I.J.K.L	+80.0 -80.0	+80.0 -80.0	+80.0 -80.0	+80.0 -80.0	+80.0 -80.0	+80.0 -80.0	+80.0 -80.0	+80.0 -80.0

TABLE 4.
GLASS TYPES:

GLASS TYPES:	TEST REPORTS	
	FTL-4647, 4648, 4723, 4957	FTL-4647, 4648
A. 5/16" LAMI - (1/8"A, .090, 1/8"A)	FTL-4647, 4648	FTL-4647, 4648
B. 5/16" LAMI - (1/8"A, .090, 1/8"HS)	FTL-4647, 4648	FTL-4647, 4648
C. 5/16" LAMI - (1/8"HS, .090, 1/8"HS)	FTL-4647, 4648	FTL-4647, 4648
D. 7/16" LAMI - (3/16"A, .090, 3/16"A)	FTL-4645, 4885	FTL-4645, 4885
E. 7/16" LAMI - (3/16"A, .090, 3/16"HS)	FTL-4645	FTL-4645
F. 7/16" LAMI - (3/16"HS, .090, 3/16"HS)	FTL-4645	FTL-4645
G. 13/16" LAMI IG - 1/8"HS, AIR SPACE, 5/16" LAMI - (1/8"A, .090, 1/8"A)	FTL-4646, 4723	FTL-4646, 4723
H. 13/16" LAMI IG - 1/8"HS, AIR SPACE, 5/16" LAMI - (1/8"A, .090, 1/8"HS)	FTL-4646	FTL-4646
I. 13/16" LAMI IG - 1/8"HS, AIR SPACE, 5/16" LAMI - (1/8"HS, .090, 1/8"HS)	FTL-4646	FTL-4646
J. 13/16" LAMI IG - 1/8"HS, AIR SPACE, 7/16" LAMI - (3/16"A, .090, 3/16"A)	FTL-4649, 4650	FTL-4649, 4650
K. 13/16" LAMI IG - 1/8"HS, AIR SPACE, 7/16" LAMI - (3/16"A, .090, 3/16"HS)	FTL-4649, 4650, 4958	FTL-4649, 4650, 4958
L. 13/16" LAMI IG - 1/8"HS, AIR SPACE, 7/16" LAMI - (3/16"HS, .090, 3/16"HS)	FTL-4649, 4650	FTL-4649, 4650
M. 13/16" LAMI IG - 1/8"A, AIR SPACE, 5/16" LAMI - (1/8"A, .090, 1/8"A) Δ	FTL-5063	FTL-5063

NOTES: 1. WINDOWS WITH THE LOW SILL OPTION ARE LIMITED TO A POSITIVE DESIGN PRESSURE OF +64.0 PSF OR LOWER AS SHOWN IN THE TABLES. NEGATIVE DESIGN PRESSURES ARE UNNEFFECTED.
2. FOR INTEGRAL FIN WINDOW DESIGN PRESSURES USE THE ABOVE TABLES BY DEDUCTING 1" FROM THE FLANGED TIP-TO-TIP FRAME DIMENSIONS. Δ
3. AVAILABLE SASH HEIGHTS FOR CUSTOM WINDOWS ARE 12 5/8" MINIMUM TO 38" MAXIMUM. Δ

Revised By: F.K.	Date: 11/13/06	Revised By: B	Date: 11/13/06	Revised By: A	Date: 1/24/06	Revised By: J.J.	Date: 2/23/07
UPDATE TO ASTM E 1805-02 REMOVE STD VIEW SASH REF. TABLE 2 REVISED CUSTOM FORMAT DPS. ADD INT. FIN. UPDATE TEST NGS				ADD FTL-4723 TO GLASS TYPES A AND G.			
DESIGN PRESSURES ALUM. SINGLE HUNG WINDOW, IMPACT				SH700 NTS 3 or 11 4040-20			

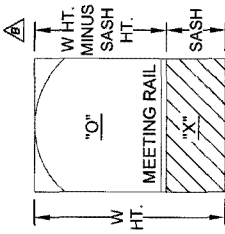
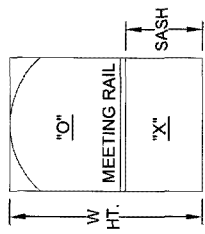
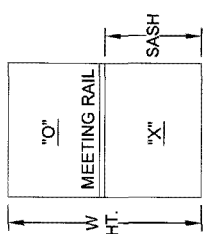


1070 TECHNOLOGY DRIVE
NOKOMIS, FL 34275
P.O. BOX 1529
NOKOMIS, FL 34274

Robert L. Clark, P.E.
PE #39712
Structural

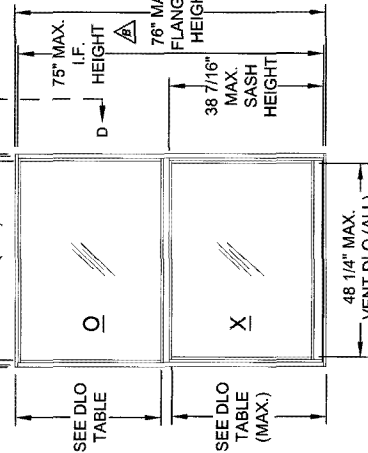
3/16/07

PRODUCT REVISED
as complying with the Florida
Building Code
Acceptance No. 07-03222-06
Expiration Date 12/31/2011
By: *[Signature]*
Miami Trade Product Control
Division



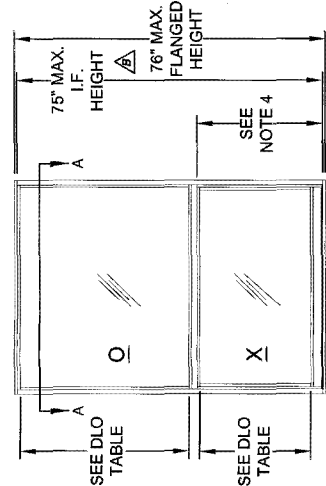
53 1/8" MAX. FLANGED WIDTH
52 1/8" MAX. I.F. WIDTH

49 5/8" MAX. FIXED
DLO (ALL)



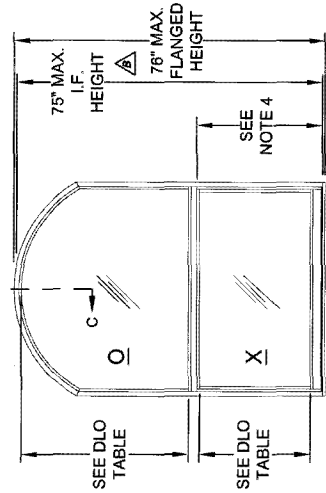
DETAIL A

1/1



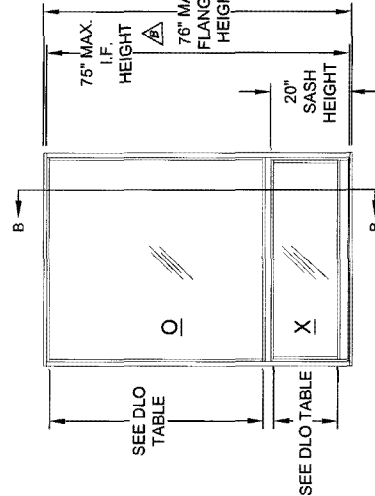
DETAIL B

VIEW (STANDARD SASH)



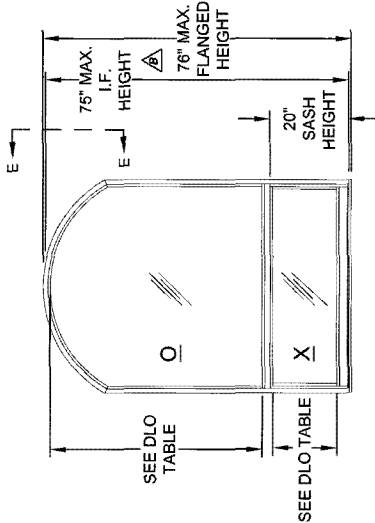
DETAIL C

RADIUS TOP (STANDARD SASH)



DETAIL D

VIEW (CUSTOM SASH)



DETAIL E

RADIUS TOP (CUSTOM SASH)

VERTICAL DAYLIGHT OPENING			
FIXED LITE			
DETAIL	LOW SILL	HIGH SILL	
A	34 1/2"	34 3/16"	
B	41 5/8"	41 1/4"	
C	41 1/4"	40 7/8"	
D	52 5/8"	52 11/16"	
E	52 1/4"	52 5/16"	
SASH			
DETAIL	LOW SILL	HIGH SILL	
A	34 1/2"	34 3/16"	
B	27 7/16"	27 1/8"	
C	27 7/16"	27 1/8"	
D	16 3/8"	15 3/4"	
E	16 3/8"	15 3/4"	

TABLE 5.

NOTES:

- SEE SHEET 5 FOR VERTICAL AND HORIZONTAL SECTION DETAILS.
- SEE SHEET 7 FOR CORNER DETAIL VIEWS.
- SEE SHEETS 8 THROUGH 11 FOR ANCHORAGE INFORMATION.
- SASH HEIGHTS FOR STANDARD SASH WINDOWS (DETAILS B & C) ARE BASED ON A THREE OVER TWO FORMAT.

Revised By:	Date:	Revisions:
F.K.	11/13/08	ADD INTEGRAL FIN (I.F.) VERSION, CHG. NOTE 3. ADD NOTE 4.
F.K.	1/24/08	NO CHANGE THIS SHEET
F.K.	9/1/05	2/23/07

1070 TECHNOLOGY DRIVE
NOKOMIS, FL 34275
P.O. BOX 1929
NOKOMIS, FL 34274

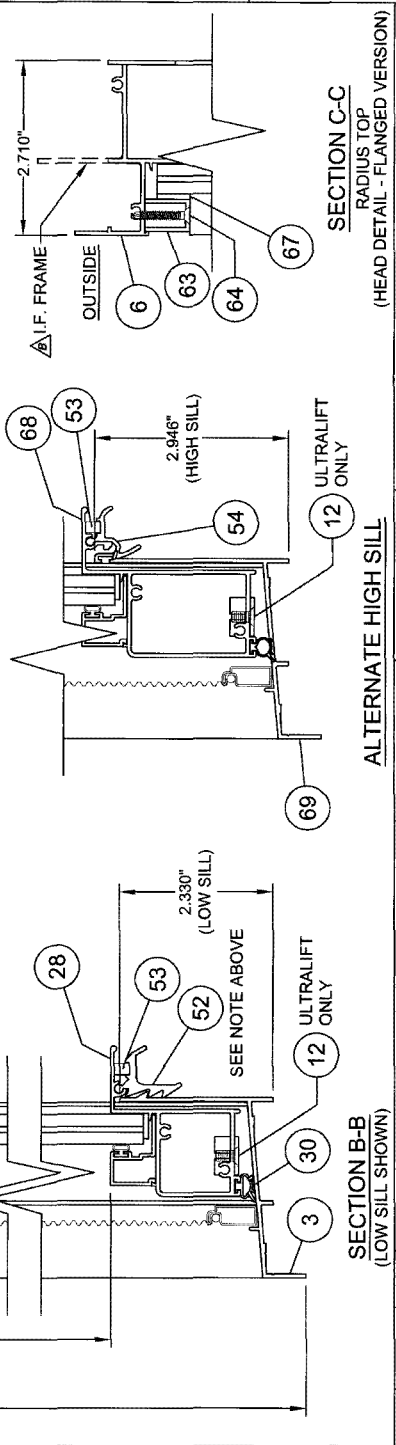
PGT
Visibly Better

ALUM. SINGLE HUNG WINDOW, IMPACT
SH700
NTS
4 of 11
Drawing No. 4040-20

Rev: B

PRODUCT REVISED
as complying with the Florida
Building Code
Acceptance No. 07-0322-06
Expiration Date: 12/31/2011
By: Michael J. Clark
Miami Trade Product Control
Division

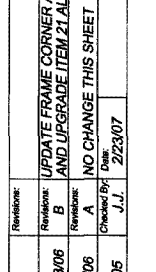
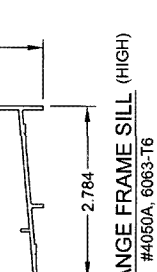
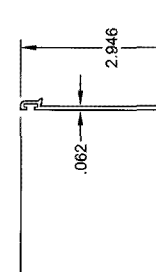
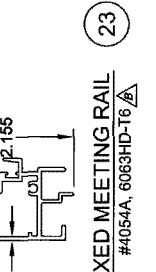
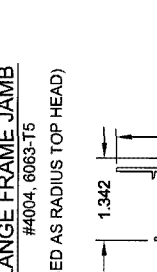
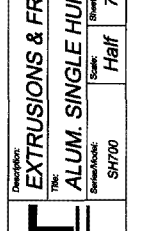
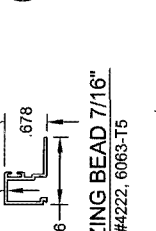
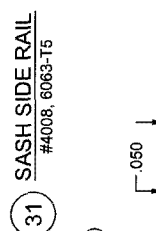
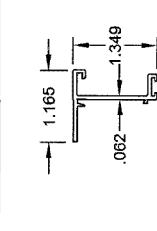
Robert L. Clark, P.E.
PE #39712
Structural



PRODUCT REVISED
as complying with the Florida
Building Code
Acceptance No. 07-0322-06
Expiration Date MARCH 23, 2011
By Manuel Perez
Miami Metro Product Control
Director

[Signature]
3/16/07
Robert L. Clark, P.E.
PE #39712
Structural

Revised By:	Date:	Revised:	Revised By:	Date:	Revised:	Revised By:	Date:	Revised:
F.K.	11/13/06	B	F.K.	1/24/06	A	F.K.	9/1/05	F.K.
Revised By:	Date:	Revised:	Revised By:	Date:	Revised:	Revised By:	Date:	Revised:
F.K.	1/24/06	A	F.K.	1/24/06	A	F.K.	1/24/06	A
Drawn By:	Date:	Checked By:	Date:	Checked By:	Date:	Drawn By:	Date:	Checked By:
F.K.	2/23/07	J.J.	F.K.	2/23/07	J.J.	F.K.	2/23/07	J.J.
ADD I.F. SECTIONS & CONSOLIDATE BAL. COMPONENTS			NO CHANGE THIS SHEET			NO CHANGE THIS SHEET		
1070 TECHNOLOGY DRIVE NOKOMIS, FL 34275			1070 TECHNOLOGY DRIVE NOKOMIS, FL 34275			1070 TECHNOLOGY DRIVE NOKOMIS, FL 34275		
P.O. BOX 1629 NOKOMIS, FL 34274			P.O. BOX 1629 NOKOMIS, FL 34274			P.O. BOX 1629 NOKOMIS, FL 34274		
PGI			PGI			PGI		
Visibly Better			Visibly Better			Visibly Better		
SHEET NO.			SHEET NO.			SHEET NO.		
5 of 11			5 of 11			5 of 11		
4040-20			4040-20			4040-20		
B			B			B		



PRODUCT REVISED
as complying with the Florida
Building Code
Acceptance No. 07-0327-06
Expiration Date: APRIL 23, 2011
by Michael Perry
Florida State Fire Marshal
ST-142

Robert L. Clark, P.E.
PE #39712
Structural

ANCHOR QUANTITIES FOR STANDARD VIEW AND RADIUS TOP FLANGED WINDOWS

SUBSTRATE: ANCHOR TYPE: WINDOW WIDTH		WINDOW HEIGHT												TABLE 6	
		29.655	37.155	44.655	52.155	59.655	67.155	74.655	76.000						
19.125	GLASS	WOOD	CONC	WOOD	CONC	WOOD	CONC	WOOD	CONC						
	TYPE	WOOD	CONC	WOOD	CONC	WOOD	CONC	WOOD	CONC						
	C.D.E.F.G.	1	1	1	1	1	1	1	1	1	1	1	1	1	1
	H.I.J.K.L.	1	1	1	1	1	1	1	1	1	1	1	1	1	1
24.000	GLASS	WOOD	CONC	WOOD	CONC	WOOD	CONC	WOOD	CONC						
	TYPE	WOOD	CONC	WOOD	CONC	WOOD	CONC	WOOD	CONC						
	C.D.E.F.G.	1	1	1	1	1	1	1	1	1	1	1	1	1	1
	H.I.J.K.L.	1	1	1	1	1	1	1	1	1	1	1	1	1	1
32.000	GLASS	WOOD	CONC	WOOD	CONC	WOOD	CONC	WOOD	CONC						
	TYPE	WOOD	CONC	WOOD	CONC	WOOD	CONC	WOOD	CONC						
	C.D.E.F.G.	1	1	1	1	1	1	1	1	1	1	1	1	1	1
	H.I.J.K.L.	1	1	1	1	1	1	1	1	1	1	1	1	1	1
37.000	GLASS	WOOD	CONC	WOOD	CONC	WOOD	CONC	WOOD	CONC						
	TYPE	WOOD	CONC	WOOD	CONC	WOOD	CONC	WOOD	CONC						
	C.D.E.F.G.	1	1	1	1	1	1	1	1	1	1	1	1	1	1
	H.I.J.K.L.	1	1	1	1	1	1	1	1	1	1	1	1	1	1
40.000	GLASS	WOOD	CONC	WOOD	CONC	WOOD	CONC	WOOD	CONC						
	TYPE	WOOD	CONC	WOOD	CONC	WOOD	CONC	WOOD	CONC						
	C.D.E.F.G.	1	1	1	1	1	1	1	1	1	1	1	1	1	1
	H.I.J.K.L.	1	1	1	1	1	1	1	1	1	1	1	1	1	1
44.000	GLASS	WOOD	CONC	WOOD	CONC	WOOD	CONC	WOOD	CONC						
	TYPE	WOOD	CONC	WOOD	CONC	WOOD	CONC	WOOD	CONC						
	C.D.E.F.G.	1	1	1	1	1	1	1	1	1	1	1	1	1	1
	H.I.J.K.L.	1	1	1	1	1	1	1	1	1	1	1	1	1	1
48.000	GLASS	WOOD	CONC	WOOD	CONC	WOOD	CONC	WOOD	CONC						
	TYPE	WOOD	CONC	WOOD	CONC	WOOD	CONC	WOOD	CONC						
	C.D.E.F.G.	1	1	1	1	1	1	1	1	1	1	1	1	1	1
	H.I.J.K.L.	1	1	1	1	1	1	1	1	1	1	1	1	1	1
53.125	GLASS	WOOD	CONC	WOOD	CONC	WOOD	CONC	WOOD	CONC						
	TYPE	WOOD	CONC	WOOD	CONC	WOOD	CONC	WOOD	CONC						
	C.D.E.F.G.	1	1	1	1	1	1	1	1	1	1	1	1	1	1
	H.I.J.K.L.	1	1	1	1	1	1	1	1	1	1	1	1	1	1

ANCHORAGE NOTES:

1. ANCHOR TYPES: 1 - 1/4" ELCO TAPCONS
2 - 1/4" ELCO SS4 CRETE-FLEX
3 - #12 SCREWS

2. ANCHOR LOCATIONS ARE BASED ON THE FOLLOWING DIMENSIONS:
HEAD - 18 1/2" MAX. FROM TOP CORNERS
JAMBS - 17 1/2" MAX. FROM TOP CORNERS
15" MAX. FROM BOTTOM CORNERS
6" MAX. BELOW MTG. RAIL
SILL - ANCHORS NOT REQUIRED

3. INSTALL PER THE ADJACENT TABLE ANCHOR QUANTITIES USING THE DIMENSIONAL CRITERIA OF NOTE 2.

4. TABLE WIDTH AND HEIGHT DIMENSION ARE FOR FLANGED WINDOWS. INTEGRAL FIN DIMENSIONS ARE 1" LESS.

5. DESIGN PRESSURE LIMITATIONS:
SIZE BLOCKS OF THE ADJACENT TABLE WITH A BOLD ITALICIZED VALUE ABOVE THEM, INDICATE A MAXIMUM DESIGN PRESSURE WITH THE QUANTITY OF ANCHORS SHOWN IN BOLD. OTHERWISE, THE MAXIMUM DESIGN PRESSURE FOR THE RESPECTIVE SIZE AND GLASS TYPE IS AVAILABLE.

TABLE KEY:

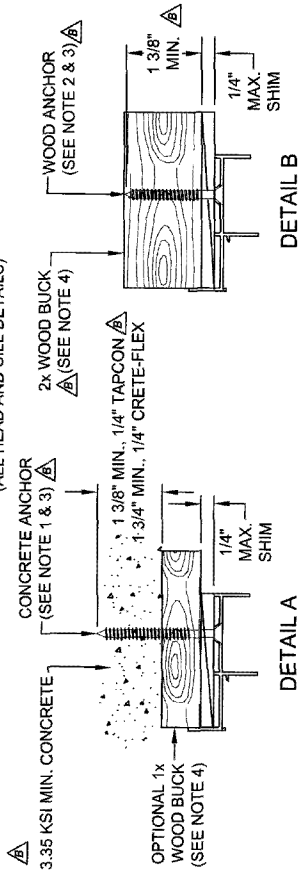
MAX. PSF
(DP LIMITED) **117**
HEAD **3**
JAMB ABOVE **3**
JAMB BELOW **3**
MTG. RAIL
JAMB BELOW
MTG. RAIL

(FULL DP)
HEAD **2**
JAMB ABOVE **2**
MTG. RAIL
JAMB BELOW
MTG. RAIL

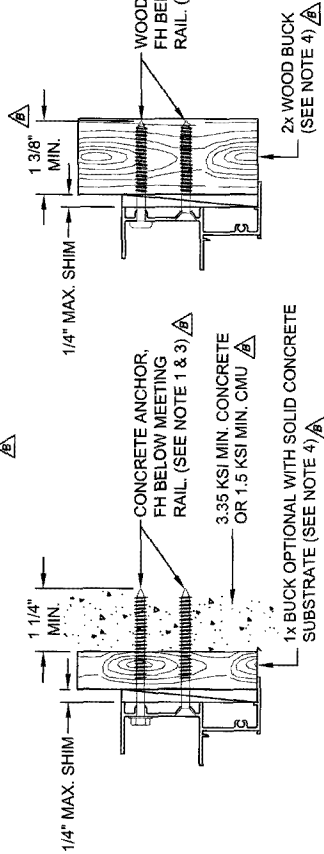
PRODUCT REVIEWED
as complying with the Florida
Building Code
Acceptance No. 07-0372-06
Expiration Date 12/31/2011
By: *Manuel Diaz*
Florida State Technical Center

3/4/07
Robert L. Clark, P.E.
PE #38712
Structural

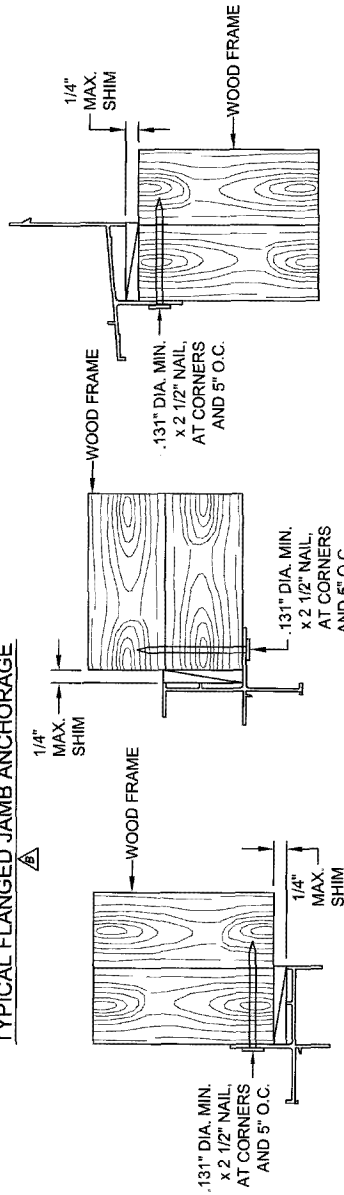
EXTERIOR INTERIOR
(ALL HEAD AND SILL DETAILS)



DETAIL A
TYPICAL FLANGED HEAD ANCHORAGE



DETAIL B
TYPICAL FLANGED HEAD ANCHORAGE



DETAIL C
TYPICAL FLANGED JAMB ANCHORAGE

DETAIL D
TYPICAL FLANGED JAMB ANCHORAGE

DETAIL E, (JAMB)
TYPICAL INTEGRAL FIN ANCHORAGE

DETAIL F, (HEAD)
TYPICAL INTEGRAL FIN ANCHORAGE

DETAIL G, (SILL)
TYPICAL INTEGRAL FIN ANCHORAGE

NOTES:

1. FOR CONCRETE APPLICATIONS IN MIAMI-DADE COUNTY, USE ONLY MIAMI-DADE COUNTY APPROVED 1/4" ELCO TAPCONS OR 1/4" SS4 CRETE-FLEX. MINIMUM DISTANCE FROM ANCHOR TO CONCRETE EDGE IS 1 3/4".
2. FOR WOOD APPLICATIONS IN MIAMI-DADE COUNTY, USE #12 STEEL SCREWS (G5) OR 1/4" SS4 CRETE-FLEX.
3. FLAT HEAD ANCHORS, WHERE REQUIRED, MUST HAVE #12 TRIMFIT HEADS.
4. WOOD BUCKS DEPICTED IN THE SECTIONS ON THIS PAGE AS 1x ARE BUCKS WHOSE TOTAL THICKNESS IS LESS THAN 1 1/2". 1x WOOD BUCKS ARE OPTIONAL IF UNIT CAN BE INSTALLED DIRECTLY TO SOLID CONCRETE. WOOD BUCKS DEPICTED AS 2x ARE 1 1/2" THICK OR GREATER. INSTALLATION TO THE SUBSTRATE OF WOOD BUCKS TO BE ENGINEERED BY OTHERS OR AS APPROVED BY AUTHORITY HAVING JURISDICTION.
5. FOR ATTACHMENT TO ALUMINUM: THE MATERIAL SHALL BE A MINIMUM STRENGTH OF 6063-T5 AND A MINIMUM OF 1/8" THICK. THE ALUMINUM STRUCTURAL MEMBER SHALL BE OF A SIZE TO PROVIDE FULL SUPPORT TO THE WINDOW FRAME SIMILAR TO THAT SHOWN IN THESE DETAILS FOR 2x WOOD BUCKS. THE ANCHOR SHALL BE A #12 SHEET METAL SCREW WITH FULL ENGAGEMENT INTO THE ALUMINUM. IF THESE CRITERIA ARE MET, THE RESPECTIVE DESIGN PRESSURES AND ANCHORAGE SPACING FOR TAPCONS MAY BE USED. A FLANGED FRAME COMPONENT MAY BE SUBSTITUTED FOR AN INTEGRAL FIN FRAME COMPONENT FOR MULLED APPLICATIONS. FOR INTEGRAL FIN MULLED APPLICATIONS IT IS EXCEPTABLE TO REMOVE THE FIN AND ATTACH TO THE MULL THROUGH THE FRAME USING THE FLANGED FRAME ANCHORAGE REQUIREMENT.
6. ANCHORS ARE NOT REQUIRED AT THE SILL OF FLANGED UNITS.
7. MATERIALS, INCLUDING BUT NOT LIMITED TO STEEL SCREWS, THAT COME INTO CONTACT WITH OTHER DISSIMILAR MATERIALS SHALL MEET THE REQUIREMENTS OF FBC CURRENT EDITION, SECTION 2003.8.4 (SUPPLEMENT 2005).

WOOD ANCHOR,
FH BELOW MEETING
RAIL. (SEE NOTE 2 & 3)

INTERIOR
EXTERIOR
(ALL JAMB DETAILS)

PRODUCT REVIEWED
as complying with the Florida
Building Code
Acceptance No. 07-0322-06
Expiration Date 01/01/23, 2011
By: [Signature]
Aluminum Trade Product Center
10/1/13

Revised By:	Date:	Revisions:
F.K.	11/13/06	B
F.K.	1/24/06	A
F.K.	9/1/05	J.J.

ADD INTEGRAL FIN ANCHORAGE, UPDATE & REORDER NOTES.
ADD NOTES 7. UPDATE CONCRETE EMBEDMENT DIM.
ADD NOTE 6 RE FLAT HEAD ANCHORS.

1070 TECHNOLOGY DRIVE
NOKOMIS, FL 34275
P.O. BOX 1529
NOKOMIS, FL 34274

PGI
Visibly Better

Description:	Rev:
ANCHORAGE DETAILS	B
ALUM. SINGLE HUNG WINDOW, IMPACT	
Sheet	11 of 11
Scale:	NTS
Drawing No.	4040-20